Rubber-Toughened Polyfunctional Epoxies: Brominated vs Non-Brominated Formulations for Graphite Composites.
Design Procedures for Fiber Composite Structural Components: Rods, Bars and Beams.
Thermal Cycling Effect on Mechanical Properties of RP/C.
The Design and Development of a Pultruded Graphite Reinforced Helicopter Structural Windshield Post.

Session 17 — Marine/Contact Molding
Breaking the Glass Barrier: Overcoming Manufacturers' Resistance to Fiberglass in the Commercial Shipbuilding Industry.
Blister Formation in RP: The Origin of the Osmotic Process.
Blistering in Coated Reinforced Plastic Laminates Exposed to Water.
High Modulus Urethane Elastomer Utilized in Conventional RP Open Mold Processing.
RP Reinforced Spas — Quality Control During Manufacture.
Material Design of Racing Catamaran Structural Beams.
Integrally Woven Marine Propeller — The Magnaweave Process Extended to Circular Parts.
Urethane-Modified Thixotropic Coatings for Reinforced Plastic Laminates.

Session 18 — Fillers and Additives Committee
Seminar on Processing of Functional Fillers by Compression Molding.
The seminar will address the processing of fillers and additives in compression molding. There will be seven speakers; each will deliver a fifteen minute presentation. The emphasis of this seminar is to provide solutions to process problems which limit the effectiveness of functional fillers.

Session 19 — Resins
High Performance Dicyclopentadiene Modified Polyester Resins.
Rubber Toughening of Polyesters: The Effect of Isophthalic Acid Content.
Glass Fiber-Polyester Composites with Rubber Toughened Matrices.
New, High Performance, Fast Curing Epoxy Resin System for Composites.
Thrust Washer and Journal Bearing Test Methods and Wear Models for Poly (Amide-Imide) Thermoplastics.
Reliability of Epoxy Molding Compounds for Semiconductor Encapsulation.
Toughening of Polyester Resin Sheet Molding Compounds With Conjugated Diene Butyl Elastomer.

Session 20 — Processing I
Design of Vertical Tank Bottoms and Automatic Equipment Fabrication.
Roll-Trusion — A New Manufacturing Technology.
Continuous Graphite/Polysulfone RP Thermoforming for Large Space Structure Construction.
From Cardboard Concept to Finished Assembly.
RP Rigidized PVC Liner for the Industrial and Chemical Industries.
Filament Wound Pneumatic Cylinder Bores — An Application's Viewpoint.
Computer Analysis of RP Laminates Utilizing Diverse Reinforcements.

Friday morning, February 11

Session 21 — Research and Development
Applications of Thermal Analytical Test Methods to the Characterization of Polymer Composites.
Properties of Phenolic Fiber Reinforced Polymers.
Simplified Composite Micromechanics Equations for Hygral, Thermal, and Mechanical Properties.
Effect of Water Absorption on Crack Growth Resistance of Short Fiber Composites.
Damage Mechanisms in Fiber Glass Reinforced Curved Members Under Flexural Loading.
Short and Long Term Properties of Carbon Fiber Reinforced Plastics.
Impact-Damaged Epoxy Composites — Impact Testing and NDT Evaluation.

Session 22 — Construction
UV Cured Gelcoat for Translucent Panels.
The Structural Use of Compression Molded Glass Reinforced Polyester.
RP and Housing: An Examination.
Recent Improvements in Construction of Monocoque Fiberglass/Foam Sandwich Portable Housing Modules.
RP Biodigestores.

Session 23 — RRIM
Design, Fabrication, and Testing of a RIM Epoxy/Fiberglass Rocker Arm Cover.
Unsaturated Polyester Reinforced Reaction Injection Molding and Reaction Injection Molding.
Reinforced RIM Automotive Fascia.
Mechanical Properties of Reinforced Foams.
Present and New Technology of Coating & Finishing of Reinforced Plastics.
Filled Epoxy Resin Systems for Reaction Injection Molding.

Session 24 — Processing II
RTM-A Proven Molding Process.
Resin Injection Process — Its Productivity and Cost Effectiveness.
Polyurethane Gelcoats.
Resin Reactivity and Its Effect on Physical Properties of RTM Molded Parts.
Mechanical Property Improvement of Injection Molded Premix.
Function and Process Considerations in the Design of an RTM Product.
A Breakthrough in Quantitative Glass Analysis for Reinforced Plastics.

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Electrified Rails Insulated with Nylon 12	Dec/Jan	16
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